Contents to volume 312

Hypotheses

Ring finger in the peroxisome assembly factor-1 (FEBS 11682) *R. Patarca, M.A. Fletcher* 1

The second cholera toxin, Zot, and its plasmid-encoded and phage-encoded homologues constitute a group of putative ATPases with an altered purine NTP-binding motif (FEBS 11698) *E.V. Koonin* 3

Altered protein folding may be the molecular basis of most cases of cystic fibrosis (FEBS 11677) *P.J. Thomas, Y.H. Ko, P.L. Pedersen* 7

The 5′ untranslated region of the human cellular glutathione peroxidase gene is indispensable for its expression in COS-7 cells (FEBS 11689) *H. Kurata, K. Kamoshita, E. Kawai, Y. Sukenaga, T. Mizutani* 10

Research Letters

Comparative analysis of sodium-dependent L-glutamate transport of synaptosomal and astroglial membrane vesicles from mouse cortex (FEBS 11666) *T. Rauen, G. Jeserich, N.C. Danbolt, B.I. Kanner* 15

Protein phosphorylation is involved in the regulation of chromatin condensation during interphase (FEBS 11679) *V. Dombrádi, P.T.W. Cohen* 21

Photoaffinity labeling of the phylloquinone-binding polypeptides by 2-azidoanthraquinone in photosystem I particles (FEBS 11681) *M. Iwaki, M. Takahashi, K. Shimada, Y. Takahashi, S. Itoh* 27

Human liver and human placenta both contain CMP-NeuAc:Galβ1→4GlcNAc-R α2→3- as well as α2→6-sialyltransferase activity (FEBS 11661) *M. Nemansky, W.E.C.M. Schiphorst, C.A.M. Koeleman, D.H. Van den Eijnden* 31

Molecular cloning and developmental expression of a human kidney *S*-adenosylmethionine synthetase (FEBS 11686) *S. Horikawa, K. Tsukada* 37

The thyroid hormone response element is required for activation of the growth hormone gene promoter by nicotinamide analogs (FEBS 11694) *A. Sánchez-Pacheco, A. Aranda* 42

Differential expression of keratan sulphate proteoglycans fibromodulin, lumican and aggrecan in normal and fibrotic rat liver (FEBS 11690) *N.B. Krull, A.M. Gressner* 47

Cloning and sequencing of a rat type II activin receptor (FEBS 11691) *H. Shinozaki, I. Ito, Y. Hasegawa, K. Nakamura, S. Igarashi, M. Nakamura, K. Miyamoto, Y. Eto, Y. Ibuki, T. Minegishi* 53

Effect of perturbing diacylglycerol metabolism on cytosolic free Ca^{2+} oscillations induced in single hepatocytes (FEBS 11693) *A. Sanchez-Bueno, P.H. Cobbold* 57

Escherichia coli DNA gyrase: genetic analysis of *gyrA* and *gyrB* mutations responsible for thermosensitive enzyme activity (FEBS 11692) *M. Oram, R. Kuroda, L.M. Fisher* 61

Neuronal-type nicotinic receptors in human neuroblastoma and small-cell lung carcinoma cell lines (FEBS 11695) *P. Tarroni, F. Rubboli, B. Chini, R. Zwart, M. Oortgiesen, E. Sher, F. Clementi* 66

pH changes associated with cytochrome *c* oxidase reaction with H_2O_2: Protonation state of the peroxy and oxoferryl intermediates (FEBS 11697) *A.A. Konstantinov, N. Capitanio, T.V. Vygodina, S. Papa* 71

Expression of retinoic acid nuclear receptors in the mouse embryonal carcinoma cell line PCC7-Mz1 (FEBS 11702) *R. Heiermann, M. Rentrop, E. Lang, A. Maelicke* 75

Changes in Na^+,K^+-ATPase structure induced by cation binding: Approach by Raman spectroscopy (FEBS 11701) *P. Anzenbacher, P. Mojzes, V. Baumruk, E. Amler* 80

Inhibition by acidic phospholipids of protein degradation by ER-60 protease, a novel cysteine protease, of endoplasmic reticulum (FEBS 11703) *R. Urade, M. Kito* 83

Interferon-γ induces cell surface expression for both types of tumor necrosis factor receptors (FEBS 11700) *R. Pandita, E. Pocsik, B.B. Aggarwal* 87

Effect of heat-shock on *Plasmodium falciparum* viability, growth and expression of the heat-shock protein 'PFHSP70-I' gene (FEBS 11704) *Bindu-Joshi, S. Biswas, Y.D. Sharma* 91

p42 map kinase phosphorylation sites in microtubule-associated protein tau are dephosphorylated by protein phosphatase $2A_1$: Implications for Alzheimer's disease (FEBS 11708) *M. Goedert, E.S. Cohen, R. Jakes, P. Cohen* 95

Bovine α_2-antiplasmin: N-Terminal and reactive site sequence (FEBS 11711) *S. Christensen, L. Sottrup-Jensen* 100

Minireviews

Unexpected intron location in non-vertebrate globin genes (FEBS 11705) *L. Moens, J. Vanfleteren, I. De Baere, A.M. Jellie, W. Tate, C.N.A. Trotman* 105

Families of metalloendopeptidases and their relationships (FEBS 11715) *W. Jiang, J.S. Bond* 110

Research Letters

Identification, characterization, and molecular cloning of a novel transporter-like protein localized to the central nervous system (FEBS 11710) *J.A. Gingrich, P.H. Andersen, M. Tiberi, S. El Mestikawy, P.N. Jorgensen, R.T. Fremeau Jr., M.G. Caron* 115

Stable expression of human D_3 dopamine receptors in GH_4C_1 pituitary cells (FEBS 11707) *G.R. Seabrook, S. Patel, R. Marwood, F. Emms, M.R. Knowles, S.B. Freedman, G. McAllister* 123

Three-dimensional structure of catalase from *Micrococcus lysodeikticus* at 1.5 Å resolution (FEBS 11667) *G.N. Murshudov, W.R. Melik-Adamyan, A.I. Grebenko, V.V. Barynin, A.A. Vagin, B.K. Vainshtein, Z. Dauter, K.S. Wilson* 127

Tandem translation of *Bacillus subtilis* initiation factor IF2 in *E. coli*: Over-expression of $infB_{B.su}$ in *E. coli* and purification of α- and β-forms of $IF2_{B.su}$ (FEBS 11712) *M. Hubert, N.R. Nyengaard, K. Shazand, K.K. Mortensen, S.F. Lassen, M. Grunberg-Manago, H.U. Sperling-Petersen* 132

Production of an antiserum specific to the ADP-ribosylated form of elongation factor 2 from archaebacteria and eukaryotes (FEBS 11709) *K.-D. Siegmund, F. Klink* 139

A complex between replication factor A (SSB) and DNA helicase stimulates DNA synthesis of DNA polymerase α on double-stranded DNA (FEBS 11713) *S. Zhang, F. Grosse* 143

^{13}C NMR studies of complexes of *Escherichia coli* dihydrofolate reductase formed with methotrexate and with folic acid (FEBS 11714) *H.T.A. Cheung, B. Birdsall, J. Feeney* 147

Prothymosin α is phosphorylated by casein kinase-2 (FEBS 11717) *M.G. Barcia, J.M. Castro, C.D. Jullien, C.G. González, M. Freire* 152

Expression of functional *Thermoplasma acidophilum* proteasomes in *Escherichia coli* (FEBS 11716) *P. Zwickl, F. Lottspeich, W. Baumeister* 157

A voltage-gated calcium channel is linked to the antigen receptor in Jurkat T lymphocytes (FEBS 11718) *J.J. Densmore, G. Szabo, L.S. Gray* 161

Lamin A gene expression is specifically suppressed in v-*src*-transformed cells (FEBS 11719) *T. Ozaki, S. Sakiyama* 165

A carboxyl-terminal truncated version of the activin receptor mediates activin signals in early *Xenopus* embryos (FEBS 11720) *S. Nishimatsu, M. Iwao, T. Nagai, S. Oda, A. Suzuki, M. Asashima, K. Murakami, N. Ueno* 169

Expression of human collagen type IV genes is regulated by transcriptional and post-transcriptional mechanisms (FEBS 11726) *C. Schmidt, R. Pollner, E. Pöschl, K. Kühn* 174

Loss of transcription factor AP-1 DNA binding activity during lymphocyte aging in vivo (FEBS 11721) *E. Sikora, B. Kamińska, E. Radziszewska, L. Kaczmarek* 179

Expression of the *ras*-related *rab3a* gene in insulinoma-derived cell lines (FEBS 11723) *B. Lankat-Buttgereit, R. Göke, H.-C. Fehmann, C. Niess, B. Göke* 183

Characterisation of the expression and post-translational processing of the preprotachykinin-I gene and the regulated release of tachykinins by the RINm5F cell-line (FEBS 11725) *G.P. McGregor, R. Hartel, H.-C. Fehmann, B. Lankat-Buttgereit, B. Göke, R. Göke, K. Voigt* 187

Noradrenaline release from permeabilized synaptosomes is inhibited by the light chain of tetanus toxin (FEBS 11724) *B. Stecher, J.J.H. Hens, U. Weller, M. Gratzl, W.-H. Gispen, P.N.E. De Graan* 192

Biochemical properties of rat protein kinase C-η expressed in COS cells (FEBS 11727) *L.V. Dekker, P.J. Parker, P. McIntyre* 195

The NK_1 receptor is involved in the neurokinin-induced shape change of rabbit platelets (FEBS 11730) *P. Savi, M.C. Laplace, G. Le Fur, X. Emonds-Alt, J.M. Herbert* 200

New mouse 5-HT2-like receptor: Expression in brain, heart and intestine (FEBS 11728) *S. Loric, J.-M. Launay, J.-F. Colas, L. Maroteaux* 203

Carbohydrate binding specificity of the T_n-antigen binding lectin from *Vicia villosa* seeds ($VVLB_4$) (FEBS 11729) *K.D. Puri, B. Gopalakrishnan, A. Surolia* 208

Molluscan putative prohormone convertases: structural diversity in the central nervous system of *Lymnaea stagnalis* (FEBS 11731) *A.B. Smit, S. Spijker, W.P.M. Geraerts* 213

Synthesis and characterization of a 25-residue rubredoxin(II)-like metalloprotein and its valine-leucine mutant (FEBS 11732) *H.E.M. Christensen, J.M. Hammerstad-Pedersen, A. Holm, P. Roepstorff, J. Ulstrup, O. Vorm, S. Østergård* 219

High level expression of transfected G protein α_{13} subunit is required for plasma membrane targeting and adenylyl cyclase inhibition in NIH 3T3 fibroblasts (FEBS 11733) *S. Hermouet, P. de Mazancourt, A.M. Spiegel, M.G. Farquhar, B.S. Wilson* 223

Primary structure and distribution of a novel ryanodine receptor/calcium release channel from rabbit brain (FEBS 11736) *Y. Hakamata, J. Nakai, H. Takeshima, K. Imoto* 229

CDP-diacylglycerol synthesis in rat liver mitochondria (FEBS 11734) *A.Y.P. Mok, G.E. McDougall, W.C. McMurray* 236

The γ-subunit of the principal G-protein from squid (*Loligo forbesi*) photoreceptors contains a novel N-terminal sequence (FEBS 11735) *J.S. Lott, N.J.P. Ryba, J.D.D. Pottinger, J.N. Keen, A. Carne, J.B.C. Findlay* 241

Primary structure required for the inhibition of smooth muscle myosin light chain kinase (FEBS 11737) *M. Ikebe, S. Reardon, F.S. Fay* 245

Human immunodeficiency virus type 1 reverse transcriptase: Affinity labeling of the primer binding site (FEBS 11739) *R.L. Mitina, S.V. Doronin, M.I. Dobrikov, D.R. Tabatadze, A.S. Levina, O.I. Lavrik* 249

A critical role of protein-bound water in the catalytic cycle of cytochrome P-450 camphor (FEBS 11751) *C. Di Primo, S.G. Sligar, G.H.B. Hoa, P. Douzou* 252

Gelation of liposome interior: A novel method for drug encapsulation (FEBS 11747) *D.D. Lasic, P.M. Frederik, M.C.A. Stuart, Y. Barenholz, T.J. McIntosh* 255

The role of conserved aspartate and serine residues in ligand binding and in function of the $5\text{-}HT_{1A}$ receptor: a site-directed mutation study (FEBS 11748) *B.Y. Ho, A. Karschin, T. Branchek, N. Davidson, H.A. Lester* 259

Author Index to Volume 312 263

Contents to Volume 312 267

Erratum 269